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APPLIED FISHERIES LABORATORY
FISHERIES CENTER
SEATTLE 5, WASHINGTON

400352

19 May 1952

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Dr. Paul B. Pearson, Chief
Biology Branch
Biology and Medicine Division
US Atomic Energy Commission
Washington 25, D.C.

Dear Dr. Pearson:

Your letter of May 13 stating that "It now appears quite definite that we would like your group to make a resurvey study of both Bikini and Eniwetok" has been received and we shall proceed to make plans accordingly. Present plans will be flexible because of uncertainty about the following points: (1) Nature of the survey. Is the survey to be pre-test, post-test, or both? The period immediately following a test is the period for which our data are most lacking and therefore of first order of importance. (2) Limitations on scientific personnel. (3) Available supporting facilities.

We are looking forward to meeting Drs. Plough and Wilbur in Seattle on May 31st and undoubtedly we can resolve these and other problems at that time.

With a terminal date on the resurvey of September 1 or shortly thereafter, a departure from Seattle about July 28, 35 days before September 1, is suggested. This date was arrived at in the following manner:

- (1) 6-8 days for round trip air travel between Seattle and Eniwetok.
- (2) 18 days at Eniwetok. Survey to include six previously established stations plus three additional stations in test areas.
- (3) 12 days for Bikini including 2 days for round trip travel between Eniwetok and Bikini. Ten days at Bikini would allow for the survey of 4 reef and 1 lagoon stations. This program is dependent upon a surface vessel, such as an LCI, for transportation between Eniwetok and Bikini and for quarters at Bikini. If a vessel is not available a limited survey might possibly be made if a few men with a rubber landing boat could be flown to Bikini in a PBV or similar aircraft.

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The need for supporting facilities and non-scientific personnel is about the same as suggested by Dr. Donaldson on Pages 9 and 10 of UWFL-30. Supporting facilities needed are as follows:

- (1) Round trip air transportation from Seattle to Eniwetok for 6 men and 600 pounds of equipment. Heavy equipment, not to exceed 2,000 pounds, could be sent out in advance by surface vessels.
- (2) Living accommodations for 6 men of officer status either on board ship or on one of the resident islands.
- (3) One hundred and fifty square feet of covered laboratory space.
- (4) A refrigerating unit of about 15 cubic feet capacity operating at 0°F. Refrigeration should be in a unit not being used for food storage.
- (5) Small surface vessels for transportation within the lagoon.
- (6) 50 pounds of dry ice at time of departure from Eniwetok for Seattle.
- (7) An LCI or similar vessel for Bikini work and possibly for living quarters at Eniwetok (See (2) above).
- (8) If (7) not available, a flight to Bikini in a PBV or similar aircraft.

Non-scientific personnel needed are as follows:

- (1) A naval liaison officer.
- (2) A boat crew for (5) above.
- (3) Two helpers to assist with gear, collections, etc.

I have forwarded a copy of your letter to Dr. Donaldson and expect to have his suggestions by the time Drs. Plough and Wilbur visit us. The latest word from the Donaldsons is that they are all busy and thoroughly enjoying their tour.

Sincerely yours,

Allyn H. Seymour

Allyn H. Seymour
Acting Director

AHS:pr

cc: Dr. L.R. Donaldson
Dr. H. H. Plough
Dr. K. M. Wilbur
Mr. K. Englund

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